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APPLICATION NO.	PPLICATION NO. FILING DATE 10/608,901 06/27/2003		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,901			William R. Kennedy	KDY 9493	7782
. 321	7590	12/02/2004	EXAMINER		
SENNIGE	R POWE	RS LEAVITT AN	JOYCE, HAROLD		
		AN SQUARE	ART UNIT	PAPER NUMBER	
16TH FLOC ST LOUIS,		02		3749	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
		10/608,901	,	KENNEDY ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Harold Joyo		3749				
Period fo	The MAILING DATE of this communication or Reply	appears on the o	cover sheet with the c	correspondence address	s			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event reply within the statuto riod will apply and will a	, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed /s will be considered timely. In the mailing date of this commur (D) (35 U.S.C. § 133).	· nication.			
Status	,							
1)[🛛	Responsive to communication(s) filed on 1	4 October 2004.						
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠	Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-35 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	tion Papers							
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the color The oath or declaration is objected to by the	accepted or b) the drawing(s) be rrection is require	e held in abeyance. So d if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1	.121(d). 152.			
		5 2.10						
12) <u> </u>	under 35 U.S.C. § 119 Acknowledgment is made of a claim for form All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Buse See the attached detailed Office action for a	nents have beer nents have beer priority docume ureau (PCT Rule	n received. n received in Applica nts have been receive 17.2(a)).	ition No ved in this National Sta	ge			
Attachme	ent(s) tice of References Cited (PTO-892)		4) Interview Summa	ry (PTO-413)				
2) Not 3) Info	tice of References Cited (F10-032) tice of Draftsperson's Patent Drawing Review (PT0-948) ormation Disclosure Statement(s) (PT0-1449 or PT0/Sloper No(s)/Mail Date		Paper No(s)/Mail	Date Patent Application (PTO-15	2)			

Page 2

Application/Control Number: 10/608,901

Art Unit: 3749

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-11 and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the United Kingdom patent in view of Kennedy et al. ('820). The United Kingdom patent discloses the claimed invention except the United Kingdom patent is silent as to the location of the electro-pneumatic or hydraulic valves even though one might reasonable assume that the actuator is mounted adjacent the closure. Nevertheless, Kennedy et al. ('820) teaches that it is known to provide power actuator mounted adjacent a leaf as set forth at column 8, lines 21-58. It would have been obvious to one having ordinary skill in the art at the time the invention was made for the pneumatic cylinder of the United Kingdom patent to be mounted adjacent the doors, as taught by Kennedy et al. ('820) in order to provide a well known location for a door actuator. As to claim 10, for the first and second leaf to be coplanar would have been obvious in view of the negative teaching at page 2, lines 41-45 of the United Kingdom patent if one did not want to take the benefit of a door which would require less force to initially open it against pressure.

Application/Control Number: 10/608,901 Page 3

Art Unit: 3749

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 12-18, 25 and 29-33 are rejected under 35 U.S.C. 102(b) as being anticipated by the United Kingdom patent. As to claim 12, the door frame is considered to be the portion of the V-formation, which act as a stop, of the triangular top plate.
- 5. Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the United Kingdom patent in view of Kennedy et al. ('820). The United Kingdom patent discloses the claimed invention except for the man door. Kennedy et al. ('820) teaches that it is known to provide a leaf with a man door for closing a man doorway as set forth at column 7, line 64 to column 8, line 6. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the leaf of the United Kingdom patent with a man door, as taught by Kennedy et al. ('820) in order to allow a passageway by personnel without having to open any of the leafs.
- 6. Claims 26-28, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over the United Kingdom patent. The United Kingdom patent discloses the claimed invention except for the closure being movable to the open position against pressure up to 2-4 times greater the pressure required to move the leaf to the open position. For the pressures to open the closure to be 2-4 time greater then the pressure required to move the leaf spring in dictated by the ratio of the surface areas between the

Art Unit: 3749

two. Note in applicant's specification, paragraph [0034]. It would have been obvious to one having ordinary skill in the art at the time the invention was made for the ratios to be so as to achieve the claimed difference in pressure to open the closure and leaf, since it solely based on the size of the closure to the leaf. Note also as to claims 27 and 28, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the maximum pressures as claimed, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Claim Rejections - 35 USC § 112

7. Claims 31 and 34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claim 31, line 17, "or closed" and claim 34 are directed to new matter.

Response to Arguments

8. Applicant's arguments filed October 14, 2004 have been fully considered but they are not persuasive. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either

Application/Control Number: 10/608,901

Art Unit: 3749

in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, contrary to applicant's arguments, the mine door of the United Kingdom patent is cable of being used even if there is no pressure formed on the other side of the door. Note, one would not expect a high pressure to be present in the mine at all times.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Joyce whose telephone number is (703) 308-0274. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (703) 308-1935. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/608,901 Page 6

Art Unit: 3749

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hardld Joyce Primary Examiner

Art Unit 3749